Delaware Water Pollution Control Revolving Fund & Safe Drinking Water State Revolving Fund

Workshop

Wednesday 22, 2016

DNREC
OFFICE OF THE SECRETARY
Environmental Finance

DHSS
DIVISION OF PUBLIC HEALTH

Delaware Water Pollution Control Revolving Fund Safe Drinking Water Revolving Fund Workshop

- Welcome
- Introductions

DNREC:

- Terry Deputy, Environmental Finance Administrator
- Greg Pope, Engineer VI
- Reza Moqtaderi, Engineer III
- Frank Paquette, Fiscal Management Analyst
- Jan Jenkins, Fiscal Management Analyst
- Robert Burns, Fiscal Analyst
- James Sullivan, Planner
- Robin Wessells, Administrative Specialist

DHSS:

• Heather Warren, Management Analyst III

Delaware Water Pollution Control Revolving Fund Safe Drinking Water Revolving Fund Workshop

Workshop Purpose

- To provide a detailed overview of the Delaware Water Pollution Control Revolving Fund, and Safe Drinking Water Revolving Fund, more commonly known as the CWSRF and DWSRF Programs
- To ensure that potential loan applicants understand project assistance eligibilities, program process, and the timing for submitting project assistance requests
- To be a resource for applicants seeking financial assistance for wastewater, drinking water, stormwater and other water infrastructure improvement projects

DNREC and DHSS Collaboration

- The CWSRF and DWSRF programs are jointly administered by DNREC and DHSS
- Twice per year (January and July) project Notices-of-Intent (NOIs) are jointly solicited for wastewater and drinking water projects
- Wastewater and Drinking Water NOIs are ranked and scored separately to prepare CWSRF and DWSRF Project Priority Lists (PPLs)

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- DNREC and DHSS Collaboration (continued)
 - Projects are selected from the PPLs for funding assistance based on "<u>Readiness to Proceed</u>" (preliminary project planning and design completed in 6 months or less)
 - DHSS is responsible for DWSRF Project Environmental Reviews, and Project Management; DNREC is responsible for DWSRF Program Accounting, Financial Management; and the overall CWSRF Program
 - Borrowers <u>are not</u> required to obtain interim bank financing for CWSRF or DWSRF projects, loan reimbursement requests are normally processed within 30 days
 - A Governor appointed Water Infrastructure Advisory Council is responsible for reviewing PPLs, IUPs, and recommending proposed CWSRF and DWSRF projects for funding assistance

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- Clean Water and Drinking Water SRFs
 - 1990 and 1997, respectively, the CWSRF and DWSRF programs were created; federal capitalization grants seed the programs along with separate required twenty percent state matching funds
 - Federal and state seed capital provided to the CWSRF and DWSRF programs is expected to exceed \$433 million
 - 172 CWSRF and DWSRF municipal and private utility loans have been made for more than \$497 million
 - CWSRF loans for Nonpoint Source Projects have exceed \$15 million (Homeowner Septic System Replacements; Poultry and Dairy Farm BMPs; Underground Leaking Storage Tank Replacements; and Other Expanded Use Projects)
 - DWSRF grants fund an Operator Certification Program; Capacity Development and Source Water Protection Programs; Underground Injection Control Program; Public Water Supply Supervision Program; and Technical Assistance Programs

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FY 2016 Estimated Available Funds

CWSRF	<u>DWSRF</u>
\$6,525,000	\$ 8,312,000 FFY 2016 Federal Capitalization Grant
\$1,305,000	<u>\$ 1,662,400</u> Required 20% State Match
\$7,830,000	\$ 9,974,400
\$	\$ 166,240 2% Technical Assistance & Operator Training
\$	\$ 332,480 4% Program Administration
\$ 518,159	\$ 1/5% FY 2015 CWSRF Fund Net Position
\$	\$ 831,200 10% Public Water Supply Supervision
\$	\$ 1,246,800 15% Source Water Protection & Capacity Development
\$7,830,000	\$ 7,397,680 Project Loans
\$1,957,500	\$ 30% Principal Loan Forgiveness – Affordability (Max)
\$	\$ 1,662,400 20% Principal Loan Forgiveness - Affordability
\$ 652,500	10% Principal Loan Forgiveness – Any Borrower
\$1,957,500	\$ -0- 30% Green Project Reserve
\$ 652,500	10% Principal Loan Forgiveness – Any Borrower

• <u>2%</u> CWSRF – DWSRF Interim Interest Rate Policy for <u>New Loan Applications</u>

State Insurance Requirements of Grantees

- Grant recipients are required to have insurance coverage to meet State requirements. The required insurance coverages apply to the following grant programs:
 - Asset Management Development Planning Grants;
 - Project Planning Advances for Wastewater and Drinking Water Projects;
 - Matching Planning Grants for Wastewater, Drinking Water, and Surface Water;
 - Community Water Quality Improvement Grants; and
 - Drinking Water Innovation and Technology Grants.
- Grant applicants should review their existing insurance coverages and determine if they meet State insurance coverage requirements. Applicants will be required to explain in their grant applications any insurance coverage deficiencies and how they will be addressed.
- Certificate of Insurance and/or copies of the insurance policies will be required before a grant agreement is executed.

Insurance Requirements of Grantees

Grant recipients shall maintain the following insurance during the grant term:

- Worker's Compensation and Employer's Liability Insurance in accordance with applicable law, and
- Comprehensive General Liability: \$1,000,000 per occurrence/\$3,000,000 general aggregate, and
- Medical/Professional Liability: \$1,000,000 per occurrence/\$3,000,000 general aggregate; or
- Miscellaneous Errors and Omissions: \$1,000,000 per occurrence/\$3,000,000 general aggregate, or
- Product Liability: \$1,000,000 per occurrence/\$3,000,000 general aggregate, and
- If required to transport state employees, Automotive Liability Insurance covering all automotive units used in the work with limits of not less than \$100,000 each person and \$300,000 each accident as to bodily injury and \$25,000 as to property damage to others.

NEW - Additional Subsidization for Low-Income Subgroups

- Additional financial assistance is available for low-income subgroups within new wastewater and drinking water project areas financed by the CWSRF and DWSRF programs.
- Municipalities that have existing CWSRF and DWSRF loans that were closed after August 19, 2015 are eligible to apply for additional assistance. A grant application must be submitted to DNREC for review and consideration by the Water Infrastructure Advisory Council (WIAC).
- Approved municipal grantees must agree to administer the Additional Financial Assistance Program (Assistance Program) for low-income residential wastewater and/or drinking water users within identified project areas.

PROGRAM REQUIREMENTS

- Approved municipal grantees must sign a five-year grant agreement that will include but not limited to the following program requirements.
 - Inform residential wastewater and/or drinking water users regarding the availability of the Assistance Program to assist low-income households with paying utility bills;

NEW - Additional Subsidization for Low-Income Subgroups

PROGRAM REQUIREMENTS

- Offer, process, and approve grant assistance applications for residential utility users
- Establish and maintain necessary administrative and accounting procedures for program implementation and reporting;
- Submit grant reimbursement requests (no more than monthly) to DNREC for approved residential utility users;
- Agree to safeguard and ensure the confidentiality of personal information submitted by residential utility users applying for and receiving grant assistance; and
- Agree to periodic meetings and program audits of all records and accounts associated with the Assistance Program.

NEW - Additional Subsidization for Low-Income Subgroups

PROGRAM ASSISTANCE GRANTS

- Assistance Program Grants, regardless of the size of a low-income subgroup population cannot exceed \$200,000 for drinking water, or \$200,000 for wastewater services, respectively.
- Approved municipal grantees must ensure allocated Assistance Program
 Grants will last for at least 5 years, regardless of the addition or deletion of
 assistance accounts for eligible residential utility users.
- Average Number of Assistance Account Per Year: 200 or 400 accounts (combined – drinking water and wastewater services) that can be supported over 5 years
- <u>Amount of Annual Assistance Per Household</u>: \$200 or \$400 (combined drinking water and wastewater services) that can be supported over 5 years

NEW – Additional Subsidization for Low-Income Subgroups

RESIDENTIAL UTILITY USER ELIGIBILITY

 Eligibility for the Assistance Program is based on the Federal Department of Housing and Urban Development (HUD), Community Development Block Grant (CDBG) State Low-Income levels shown below subject to annual revision:

	State
Family Size	Income Limits
1	41,650
2	47,600
3	53,550
4	59,500
5	64,300
6	69,050
7	73,800
8	78,550

NEW – Additional Subsidization for Low-Income Subgroups

RESIDENTIAL UTILITY USER ELIGIBILITY

- In addition, residential utility user households must meet the following criteria:
 - Applicant must be year-round resident of the home;
 - Liquid assets and real estate, other than owner-occupied home must be less than \$15,000;
 - No delinquent Taxes (municipal, county, or state);
 - No delinquent drinking water or wastewater service bills

FUNDING LIMITATIONS, SUBMISSION DATES, PRIORITY, AND APPROVAL

- There is no guarantee of additional funding beyond initial grant awards
- Insurance Requirements apply to the program

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- Clean Water Program Update (does not apply to DWSRF Program)
 - June 10, 2014 President Obama signed into law the Water Resources Reform and Development Act (WRRDA)
 - WRRDA amendment changes under Title VI of the Clean Water Act apply to Federal Water Pollution Control Act that created the Clean Water State Revolving Fund (CWSRF) Program
 - During this workshop we will discuss WRRDA amendment changes relative to their impact on potential CWSRF borrowers; and Delaware's plan for implementing program requirements, and expanded funding eligibilities

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WRRDA Amendment Changes

- a) Unchanged Previous CWSRF Program Requirements
 - □ Environmental Review
 - □ Davis-Bacon Wages Rates
 - □ American Iron and Steel
- b) New Program Requirements
 - □ Fiscal Sustainability Plans
 - □ A/E Procurement
 - □ GAAP Reporting
 - Cost and Effectiveness
- c) Expanded Project Eligibilities
 - Land Purchases Necessary for Construction
 - Decentralized Wastewater Systems
 - □ Stormwater
 - □ Water Conservation, Efficiency, & Reuse

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WRRDA Amendment Changes

- c) Expanded Project Eligibilities (continued)
 - Watershed Projects
 - Energy Initiatives
 - □ Recycled Water & Water Reuse
 - Security Initiatives
 - □ Funding for Nonprofits
- d) Affordability Criteria, Additional Subsidization, and Expanded Loan Terms
 - □ Affordability Criteria
 - Additional Subsidization
 - □ 30 Year Loan Terms

Project Priority List (PPL) Process

- Each Fiscal Year the CWSRF and DWSRF programs are required to submit PPLs to EPA
- The process consists of:
 - Notice of Intent Project Solicitation
 - Ranking of projects
 - Public Hearing and Approval of List by WIAC
 - Approval by EPA
- Only ranked projects will be eligible to apply for CWSRF and DWSRF funding

Notice of Intent – Project Solicitation

- January and July, applicants are requested to submit Project NOIs for each project NOIs for the second solicitation are due by <u>July 29th</u>
- Projects intended to begin in the next 6 years are requested to provide visibility for future funding needs
- NOIs request statistical, environmental, public health, and financial information for each project

- The criteria are defined by the Standard Operating Procedures for PPLs established by DNREC and DHSS
- Projects are ranked by year of inception and then by number of priority points
- Generally, the highest ranking project should deliver the greatest environmental and public health benefit to the State

I. Water Quality Protection o-45 points (o-10 bonus)

II. Targeted Waterbodies o-20 points

III. Clean Water Priorities o-20 points

IV. State Strategies o-10 points

V. Green Project Reserve o-10 points

VI. Sustainability o-30 points

VII. Land Conservation o points (10 bonus)

Total 135 pts 20 bonus

- Water Quality Protection (0 45 points)
- <u>Point Source project</u> Total pounds of nitrogen plus the total pounds of phosphorus that will be removed from the discharge as result of the project multiplied by a constant - Maximum 45 points

Ex:
$$\frac{(11,400 \# N + 1,600 \# P)}{\text{year}} \times 0.30 \text{ d/#} = 10.7 \text{ pts}$$

 $\frac{365 \text{d}}{\text{year}}$

- <u>Plus Bonus pts for ENR</u>: additional point for each 10% of allowable pollution load eliminated by project (up to 10 pts), **or**
- NEW Toxics For toxic pollutants, the effectiveness of a given project will be rated based on its ability to eliminate or reduce the severity of Delaware fish consumption advisories; eliminate or reduce the severity of toxic impacts to benthic aquatic life; or otherwise attain numeric toxics criteria for the protection of human health and aquatic life in Delaware Water Quality Standards. Points will be determined for effectiveness by multiplying the percent reduction in impact by 0.5 Maximum 45 Points, or
- <u>Non-point source project</u>: receive points based on the published efficiencies of the BMP's. Percent efficiency of the project's BMP multiplied by 45 Maximum 45 points

Targeted Waterbodies – (0-20 points)

• If the project:

 Addresses an existing TMDL 	20 points
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Addresses a watershed management plan 10 points

None of the above0 points

• Clean Water Priorities (0-20 points)

<u></u>	Project	falls	under	one	of	the	categ	ories	below:	

_	Septic System Elimination Project	15 points
_	Wastewater Treatment Facilities and CSO's	20 points
-	Other Wastewater Project	10 points
-	Wastewater project with I&I correction	15 points
_	Surface Water Management Project	15 points
_	Surface Water Management Project under MS4 permit	20 points
-	NEW Project that eliminates or reduce toxics (WATAR)	15 points
-	NEW Project that eliminates or reduce toxics (WATAR)	20 points
	 and implements wetland restoration 	
-	Other Water Quality project (NPS)	10 points

• Strategies for State Policies and Spending (0-10 points)

• <u>212 project</u>

Level 1	10 points
Level 2	10 points
Level 3	5 points
Level 4	0 points
Out of Play	0 points
out of I my	o pomus

• Non-point Source (319) Project 10 points

Green Pro	ject Reserve	(0-10 points)
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– Pr	oject meets	definition in	one of below	categories
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 Green Infrastructure 	10 points
 Water Efficiency 	10 points
 Energy Efficiency 	10 points
 Environmentally Innovative 	10 points

Sustainability (0-10 points)

Project/System incorporates:

-	Asset Management Implementation	10 points
	Full Cost Pricing Standards	10 points
<u> </u>	NEW Climate Change Adaption or Resiliency	10 points

• Sponsorship (10 bonus points)

Land Conservation or Water Quality Improvement Sponsorship
 10 points

		Points Allowed	Points Awarded
1. Growth			
	Is this project primarily for growth? If yes, it is not an eligible project.	o	
	yes no		
2. Afforda	bility	100	
	According to the preliminary Financial Review, is this project considered unaffordable and/or does this project meet Disadvantaged Community criteria?		
	yes no		
	Award points only if the answer is "Yes".		
3. Quality	Deficiencies Was the Applicant required to provide a Pubic Notification to its consumers during the past three years for exceeding a drinking water standard in accordane with State or Federal Regulations?	80	
	yes no		
	Does the project description stated in the application address the compliance issue for which the Public Notification was required?	30	
	yes no		
	Does the Applicant meet or exceed EPA's Electronic Tracking Tool (ETT)'s compliance score of 11?	10	
	yes no		
	According to sample results, does the water system exceed any Secondary Standards?	25	



					Points Allowed	Points Awarded
	Have any complain Drinking Water for		15			
		yes		no		
	Have any monitoring or reporting violations been issued in the past three years?					
		yes		no		
4. System	Information Population:					
	· opaiationi	Less than	10.000		10	
		10,000+	,		5	
	Type:					
		Municipa	ı		10	
		Other Co	mmunity		5	
		Non-Prof	it NTNC		5	
		Non-Prof	it TNC		5	
5. Regiona	lization					
	Is the Applicant pro system?	oviding wat	er to a non	-complying water	50	
		yes		no		
	Is the Applicant providing water to an area of existing <i>private</i> wells with water quality deficiencies?					
		yes		no		
	Will the project reswater systems?	sult in the co	onsolidatio	on of complying	70	
		yes		no		



		Points Allowed	Points Awarded				
	Will the project result in an interconnection with another	30					
	water system?	30					
	yes no						
6. Storage							
	Does the project address <i>acute</i> quantity deficiencies such as: Water pressure below 25 psi	30					
	yes no Lack of adequate supply						
	yes no	30					
	Does the project address <i>chronic</i> quantity deficiencies such as	s:					
	Lack of adequate storage yes no	20					
	Water shortages during peak demand	20					
	yes no						
7. Treatm	ent						
Referring to Section 1 and the project description, will the project directly remedy the contaminant exceedance or non-compliance with treatment upgrades?							
	yes no						
	For all other treatment projects, indicate the upgrade(s) below:						
	Degraded facility	30					
	Faulty pumping station	20					
	Inaccurate controls/SCADA	20					
	Inadequate disinfection	30					
	Inadequate corrosion control	20					
	Inadequate nitrate removal	30					
	Inadequate filtration	30					
	Ineffective backflow prevention	20					
	Lack of critical redundancy	30					
	Unreliable emergency power	30					
	Other (please describe)	20					



		Points	Points				
		Allowed	Awarded				
8. Distribu	rtion						
	Indicate all distribution upgrades below:						
	Inadequate intake (surface water only)	80	l .				
	Failing transmission mains	80	l				
	Failing distribution mains	80)				
	Meter installation (categorically green)	60)				
	Meter replacement (categorically green)	60)				
	Hydrant installation	40)				
	Hydrant replacement	40)				
	Valve installation	30)				
	Valve replacement	30)				
	Other (please describe)	20)				
9. Source							
	Indicate all source upgrades below:						
	Inadequate source	100)				
	Replacement of contaminated source	100					
	Other (please describe)	50					
10. Sustair	nability						
	,						
	Is the Applicant's 5-year Capitalization Plan or similar	40)				
	document included in the application?						
	yes no						
							
		40					
	Is the Applicant's 5-year Capitalization Plan or similar						
	document included in the application?						
	yes no						
	Does this project consider other relevant community	30	•				
	sustainability priorities from other sectors, such as						
	transportation or housing?						
	yes no						
	Does this project make use of technologies and practices to	30	1				
	reduce energy and/or water consumption or use renewable	30					
	energy?						
	ves no						



					Points				
						Awarded			
	project red		30						
infrastructure from extreme events and increase resilience									
to future									
		yes		no					
Is the project scope to prepare for future requirements?									
		yes		no					
Was the p	roject on t	10							
		yes		no					
Is this a pl	hased proj	ect coverin	ng several y	ears?	10				
		yes		no					
Is the App	olicant activ	ve in other	DWSRF gra	ant programs?	30				
		yes		no					
Does the	Applicant's	ote conservation?	20						
		yes		no					
Are the Applicant's rates reviewed and assessed on a regular basis?									
		yes		no					
Are the following documents current and implemented?									
		Cross Con	nection Co	10					
		10							
		10							



Environmental Review Process

- Environmental review determinations and their frequency (<u>Unchanged WRRDA Requirement</u>)
 - Categorical Exclusion (CE) occasionally
 - Finding of No Significant Impact (FONSI) most common determination
 - Environmental Impact Statement (EIS) rare
- Categorical Exclusion (CE)
 - i.e. rehabilitation & replacements of existing facilities, minor upgrades or expansion of existing facilities, minor extensions within previous disturbed right-of-ways
 - Issue a CE and legal notice with 30 day comment period
 - If no issues, CE stands as issued
- Finding of No Significant Impact (FONSI)
 - i.e. facilities to create new discharges to surface or ground waters, facility capacity to serve greater than 30% of existing population, action expected to have impacts
 - Issue a draft FONSI to stakeholders and issue a legal notice.
 - Allow a 30 day comment period
 - Mitigation of any environmental issues

Issue FONSI

Environmental Review Process

- Environmental Impact Statement (EIS)
 - Required when project is determined to have significant impacts or is highly controversial
 - Extremely rigorous process required to issue an EIS

Unchanged WRRDA Program Requirements

- Davis-Bacon Wage Rates
- American Iron and Steel

New WRRDA Program Requirements

- Fiscal Sustainability Plans
- A/E Procurement
- GAAP Reporting
- Cost and Effectiveness

Fiscal Sustainability Plans (FSPs)

- Applies to proposed treatment works for Repair, Replacement, or Expansion
- Development of FSPs are eligible for CWSRF loan assistance
- Requires loan recipients to Develop and Implement Plans that include:
 - 1. an inventory of critical assets that are a part of the treatment works;
 - 2. an evaluation of the condition and performance of inventoried assets or asset groupings;
 - 3. a certification that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan; and
 - 4. a plan for maintaining, repairing, and, as necessary, replacing the treatment works and a plan for funding such activities; or
 - 5. certify that the recipient has developed and implemented a plan that meets the requirements of 1 through 4 above
- Effective date of the FSP requirement was October 1, 2014 and will apply to FY 2016 Project Notices-of-Intent (NOIs)
- <u>Does not</u> apply to New Treatment Works (unless demolition and replacement), or Upgrades for Advance Treatment

Fiscal Sustainability Plans (FSPs)

- Borrowers will be allowed to phase-in FSPs in relation to the proposed project to be financed
 - 1. an inventory of <u>Closely Associated</u> critical assets that are a part of the treatment works;
 - 2. an evaluation of the condition and performance of <u>Closely Associated</u> inventoried assets or asset groupings;
 - 3. a certification that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan <u>If Applicable to the Project</u>; and
 - 4. a plan for maintaining, repairing, and, as necessary, replacing the treatment works and a plan for funding such activities <u>In Relation to the Project</u>; or
 - 5. certify that the recipient has developed and implemented a plan that meets the requirements of 1 through 4 above
- FSPs must be developed before the project has been completed,
- Borrowers that self-certify that they have already met FSP requirements, and have a plan and system in place must do so at loan closing

Architectural / Engineering (A/E) Procurement

- A contract to be carried out using funds directly made available by a capitalization grant for program management, construction management, feasibility studies, preliminary engineering, design, engineering, surveying, mapping, or architectural related services shall be negotiated in the same manner as a contract for architectural and engineering services is negotiated under Chapter 11 of Title 40, United States Code
- Applies to A/E contracts associated with projects in an amount equal to the capitalization grant (equivalency projects)
- Applies to new solicitations, significant contractual amendments and contract renewals
- Effective with the FY2015 capitalization grant
- Applies to project A/E contracts that have been signed on or after October 1, 2014
- Equivalency projects must be identified on the 2016 CWSRF Intended Use Plan (IUP)

Architectural / Engineering (A/E) Procurement

- 5 key elements of A/E Procurement requirements must be met:
 - 1. Public announcement of the solicitation (e.g., Request For Qualifications);
 - 2. Evaluation and ranking of submitted qualifications based on established, publicly available criteria;
 - 3. Discussion with at least 3 firms to consider anticipated concepts and compare alternative methods;
 - 4. Selection of at least 3 firms considered to be most qualified; and
 - 5. Contract negotiation with the most qualified firm to determine compensation that is fair/reasonable based on project scope and complexity
 - In the event a contract cannot be negotiated with the most qualified firm, negotiation continues in order of qualification

Generally Accepted Accounting Practices (GAAP) Requirement

- Loan recipients are required to maintain CWSRF project accounts in accordance with generally accepted government accounting standards, including standards relating to the reporting of infrastructure assets
- Requirement Effective Date: October 1, 2014
- Since 1990, loan recipients have been required to maintain project accounts in accordance with generally accepted government accounting standards; accounts must be maintained separately
- In 1999, the General Accounting Standards Board (GASB) issued Statement No. 34 which includes methodologies for reporting on and depreciating infrastructure and capital assets
- It is likely that all current CWSRF borrowers are already complying with this requirement

Cost and Effectiveness Requirement

- Municipalities or Intermunicipal, Interstate, or State Agencies loan recipients must certify that they have:
 - studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project or activity for which assistance is sought; and
 - selected, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account:
 - 1. the cost of constructing the project or activity;
 - 2. the cost of operating and maintaining the project or activity over the life of the project or activity; and
 - 3. the cost of replacing the project or activity;
- Requirement Effective Date: October 1, 2015 (will apply to NOIs received in 2016)

On-going Program Requirements

- Super Cross Cutters
 - EO 11246 Equal Employment Opportunity non- discrimination based on race, color, religion, sex, or national origin
 - Requirement for Certification of Non-segregated Facilities
 - Civil Rights Act of 1964
 - Rehabilitation Act of 1973
- Delaware Prevailing Wage Regulations
- DBE (formerly MBE/WBE) Applies only to Equivalency Projects
- Compliance with Section 306 of the Clean Air Act and Section 508 of the Clean Water Act
- Suspension and Debarment and other responsibility matters
- Project Sign
- Access to Project Site by DNREC and USEPA

Project Bid Process

- All plans and specifications must be reviewed and approved by program staff prior to advertisement
- Mandatory Pre-Bid meeting must be held to explain program requirements to potential bidders at least 15 days prior to bid opening
- Project is bid for a minimum of 30 days
- Sealed bids are received and shall be opened publicly and be read aloud at the time and place designated

Contract Award Process

- Bids are tabulated and the contract is awarded to the responsive low bidder
 - Bid Package submitted for approval must contain:
 - Bid tabulation
 - Certification of all Bonds
 - Certification that all easements have been obtained
 - Submission of required DBE documents
 - Other document as required
- Schedule and conduct a Pre-construction conference

Construction and Inspection

- Monthly progress meetings must to be held
- Interim inspections will be conducted by the CWSRF and/or DWSRF project engineer to ensure compliance with the program requirements
- Any significant project delays or issues must be disclosed to the project engineer

Questions??

Financial Review

- Applicant Overview
- Project Overview
- Review of Annual Reports and Financial Statements
- Review of Wastewater and/or Drinking Water User Charge Systems
- Analysis of Existing and Proposed System Costs
- Analyses of Proposed Project Impact on Residential Users Rates
- Analysis of User Charge Affordability 1.5% / 2.0% (combined) of MHI
- Financial Assistance Recommendation / Presentation to WIAC

Binding Loan Commitment, Loan Agreement, & Closing Process

- Binding Loan Commitment Letter
 - Commitment of Fund resources for proposed project (borrower can solicit project construction bids)
 - project description,
 - loan amount,
 - loan terms, and
 - estimated timing (120 days) to close the loan
- Loan Closing
 - After Project Construction Bids are Solicited and Accepted by Borrower
 - Legal Counsel
 - Loan Closing Expense for Borrower and Fund
 - General Obligation Bond or Revenue Bond—sets forth loan terms
 - Financing Agreement—describes project, operation of system, special covenants

Loan Reimbursement and Repayment Process

- Loan Reimbursement
 - Eligible project expenses must be incurred but not required to be paid in advance
 - Reimbursement draw requisition form must be used
 - Copies of supporting project expenses included with draw request
 - Loan expenses reimbursed in 30 days or less
- Loan Repayment Process (depending on loan agreement)
 - Interest only payments during project construction
 - Amortized loan (principal and interest) repayment are due 6 to 12 months after projects completion

Final Disbursement and Initiation of Operations

- Upon substantial completion and release of any retainage, recipients submit for final disbursement
- Project engineer will ensure that the program requirements are met and that all specifications have been followed
- Depending on the terms of the loan, the project may go into repayment immediately or after six month to one year from initiation of operations

Questions??

- Land Purchases Necessary for Construction The definition of treatment works has been expanded to include land necessary for construction, eligible expenses now include:
 - Leasing or fee-simple purchase of land
 - Surface and subsurface easements
 - Land required to store equipment and materials during construction
 - Land required to locate eligible treatment or distribution/collection projects
 - Land for effluent application or recharge basins
- **Decentralized Systems** for the construction, repair, or replacement of decentralized wastewater treatment systems that treat municipal wastewater or domestic sewage
 - •Decentralized projects do not need to correct an existing NPS problem
 - •Decentralized systems for new construction may now be funded, either individual or cluster on-site systems
 - •Decentralized systems may be publicly or privately owned; they may serve either public or private purposes
 - •Decentralized systems considered "treatment works" must comply with Davis-Bacon, AIS, and Environmental Review requirements

- Stormwater Eligibilities for measures to manage, reduce, treat, or recapture stormwater or subsurface drainage water
 - Eligible as an independent authority (does not need to be included in State 319 Plan)
 - Privately owned, permitted stormwater projects can now be funded including urban stormwater projects in MS4 areas
- Water Conservation, Efficiency, & Reuse for any <u>municipality</u> or <u>intermunicipal</u>, <u>interstate</u>, or <u>State Agency</u> for measures to reduce the demand for publicly owned treatment works capacity through water conservation, efficiency, or reuse
 - Only the specified public entities are eligible for assistance for this project type; however
 the project may take place on public or private property as long as it reduces demand for
 POTW capacity
- Watershed Projects for the development and implementation of watershed projects
 - Watershed management of wet weather discharge management of municipal combined sewer overflows, sanitary sewer overflows, and stormwater discharges, on an integrated watershed or subwatershed basis

- •Energy Initiative for any <u>municipality</u> or <u>intermunicipal</u>, <u>interstate</u>, or <u>State Agency</u> for measures to reduce the energy consumption needs for publicly owned treatment works
 - Projects to reduce the energy consumption needs for POTWs are eligible
 - Projects may take place on public or private property
- •Recycled Water & Water Reuse for reusing or recycling wastewater, stormwater, or subsurface drainage water
 - Reuse projects free of Section 212 ownership restrictions
 - Privately-owned, water reuse treatment plants
- •Security Initiative for measures to increase the security of publicly owned treatment works
- •Funding for Nonprofits for any qualified nonprofit entity to provide assistance to owners and operators of small and medium publicly owned treatment works
 - to plan, develop, and obtain financing for eligible projects including planning, design, and associated preconstruction activities; and
 - to assist such treatment works in achieving compliance

Questions??

- Watershed Planning for the development and implementation of watershed projects
 - •Watershed partnerships Efforts of municipalities and property owners to demonstrate cooperative ways to address nonpoint sources of pollution to reduce adverse impacts on water quality
 - •Integrated water resources planning development of an integrated water resource plan for the coordinated management and protection of surface water, ground water, and stormwater resources on a watershed or subwatershed basis
 - •Stormwater management planning development of a municipality-wide plan that identifies the most effective placement of stormwater technologies and management approaches, to reduce water quality impairments from stormwater on a municipality-wide basis
 - •Stormwater Best Management Practices control of pollutants from municipal separate storm sewer systems for the purpose of demonstrating and determining controls that are cost-effective and that use innovative technologies to manage, reduce, treat, recapture, or reuse municipal stormwater
 - •Weather/climate-related resilience planning efforts to assess future risks and vulnerabilities of publicly owned treatment works to manmade or natural disasters, including extreme weather events and sea-level rise, and to carry out measures, on a system-wide or area-wide basis, to increase the resiliency of publicly owned treatment works

- **Affordability Criteria** Delaware has established affordability criteria to assist in identifying municipalities that would experience a significant hardship raising the revenue necessary to finance wastewater projects.
 - Affordability criteria is based on:
 - Income,
 - Unemployment Data, and
 - Population Trends

Income – 1.5% of Median Household Income (MHI) will be considered affordable for wastewater and drinking water residential user rates; 2.0% of MHI will be considered affordable for combined wastewater and drinking water residential user rates

Affordability Criteria:

Unemployment Data – Non payment of residential wastewater and drinking water utility bills are normally directly associated with insufficient income and unemployment

- Residential utility bill delinquency rates will be used as a proxy measure for unemployment
- 5% residential utility delinquency rate will be assumed for both wastewater and drinking water when evaluating CWSRF loan applications for assistance
- CWSRF loan applicants will be required to provide additional documentation to support a residential delinquency rate above 5%

Population Trends – Wastewater utilities can be negatively impacted by decreasing population in relation to fixed assets and expenses that were designed/sized to service a larger customer base. The estimated number of Equivalent Dwelling Units (EDUs; 1 household = 1 EDU) served by a wastewater utility will be used as a proxy measure for population trends

• CWSRF loan applicants negatively impacted by decreasing number of EDUs served in relation to their proposed project(s) will be required to provide documentation to receive a systems revenue credit that cannot exceed the difference in the number of EDUs served over the past 5 years

- Additional Subsidization A state may provide additional subsidization to a <u>municipality</u> or <u>intermunicipal</u>, <u>interstate</u>, or <u>state agency</u>, including forgiveness of principal and 0% interest loans to benefit a municipality
 - That meets the affordability criteria of the state established; or
 - Does not meet the affordability criteria of the state if the recipient:
 - seeks additional subsidization to benefit individual ratepayers in the residential user rate class;
 - demonstrates to the state that such ratepayers will experience a significant hardship from the increase in rates necessary to finance the project or activity for which assistance is sought; and
 - ensures, as part of an assistance agreement between the state and the recipient, that the
 additional subsidization provided will be directed through a user charge rate system (or
 other appropriate method) to such ratepayers; or
 - To implement a process, material, technique, or technology
 - to address water-efficiency goals;
 - to address energy-efficiency goals;
 - to mitigate stormwater runoff; or
 - to encourage sustainable project planning, design, and construction

- Additional Subsidization (continued)
 - Permanent authority; applied to FY2015 capitalization grant award and later appropriations
 - Additional subsidization may only be provided if the total amount appropriated for capitalization grants nationally <u>exceeds</u> \$1 billion
 - Maximum amount varies from year to year but cannot exceed 30% of capitalization grant award
 - There are no minimum subsidy requirements; a state could provide \$0
 - Eligibility public entities only, however, pass-through is allowable
 - Delaware Additional subsidization for CWSRF projects will be provided in the following priority order:
 - 1. CWSRF PPL Ranking, Project Readiness To Proceed, and Affordability Criteria
 - 2. To help incentivize efficiency projects: Water, Energy, and Stormwater
 - 3. To help facilitate Watershed Planning

- **Expanded Loan Terms** CWSRF loans are made at or below market interest rates, including interest free loans, at terms not to exceed the lesser of 30 years and the projected useful life
 - Annual principal and interest loan repayments must commence not later than one year after projects completion, and loans must be fully amortized upon the expiration of the term of the loan
 - Existing loans can be restructured with a longer maturity if the useful life allows
 - 20 year loan with 10 years remaining can be restructured to add 20 years (30 years total) if the useful life is 30 years or more
 - Timing: New or restructured loan agreements signed on or after October 1, 2014
 - 30 year loans are not limited to specific entities such as disadvantage or affordability
 - Delaware Proposed loan terms will be structured based on the priorities of DNREC, CWSRF Fund, and WIAC recommendations. However, as a standard municipal/private loans:
 - <= \$250,00 loan term <= 5 years;</p>
 - <= \$500,000 loan term <= 10 years;</p>
 - \Rightarrow >= \$501,000 loan term <= 20 years; and
 - 30 year term reserved to help make municipal loans affordable; loan restructuring due to affordability; and DNREC/WIAC recommended incentivized projects

What is Asset Management?

- Asset management is the practice of managing infrastructure capital assets to minimize the total cost of ownership and operations, while delivering the service level customers desire.
- Asset management can:
 - open communications between utility system staff and decision makers,
 - help move utilities from crisis management to informed decision making,
 - facilitate more efficient and focused system operations; and
 - improve financial management to make the best use of limited resources.
- Asset management is a framework widely adopted as a means to pursue and achieve sustainable infrastructure.
- An asset management plan serves as a tool to record all utility practices and strategies.

Why Adopt An Asset Management Plan?

- Utilities that implement asset management plans develop:
 - detailed asset inventories,
 - perform operation and maintenance tasks,

Why Adopt An Asset Management Plan?

- Utilities that implement asset management plans develop:
 - long-range financial planning; and
 - undertake other activities to build system capacity.
- Asset management can have numerous benefits to a system, including, but not limited to:
 - prolonging asset life,
 - meeting customer demands,
 - help to ensure proper rate setting and budget planning, and
 - meeting regulatory requirements and improving response to emergencies.

Core Components of an Asset Management Plan:

- 1. Asset Inventory
- 2. Level of Service
- 3. Critical Assets
- 4. Revenue Structure
- 5. Capital Improvement Project Plan

1) Asset Inventory

- What do I own?
- Where is it?
- What condition is it in?
- What is its remaining useful life?
- What is its value?

2) Level of Service

- Level of Service (LOS) defines the way stakeholders want the utility to perform long term
 - What is the LOS goal for health, safety, and security?
 - How often is the system out of compliance with regulations?
 - Are the operators properly certified?
 - How does the utility stay aware of and prepare for new regulations?

3) Critical Assets

- Assets or types of assets may be critical in one location, but not critical in another. A utility must examine its assets carefully to determine which assets are critical and why.
- Determining asset criticality, what is the <u>Probability of Failure (POF)</u>; and what is the <u>Consequence of Failure (COF)</u>

4) Revenue Structure

- Rate Methodology rate setting methodology is a tool to determine rates and charges that will provide sufficient revenues to cover operation, maintenance, replacement, capital improvement projects, and debt costs.
 - billable flow methodology
 - readiness to serve or fixed charge methodology
 - fixed and variable methodology
- Replacement rate methodology should also include a replacement breakdown

5) Capital Improvement Project Plan

- A long-term Capital Improvement Plan (CIP) should look at the utility's needs for the future. Ideally, the planning period would be at least 20 years, with a minimum of 5 years
- Identification of desired projects and their anticipated cost; and date to initiate projects

Requirements for Asset Management Incentives:

- Must be a Publicly-Owned Wastewater or Drinking Water Utility
- Governing Municipal Government must sign a five year agreement with DNREC to develop and implement a system-wide Asset Management Plan based on the following core components:
 - 1. Asset Inventory
 - 2. Level of Service
 - 3. Critical Assets
 - 4. Revenue Structure
 - 5. Capital Improvement Project Plan
- Municipality may contract with consulting firm following their own procurement procedures, however, scope must be approved by DNREC prior to solicitation

Incentive Programs:

- No cash match required for up to \$100,000 municipal planning grant to develop and implement an Asset Management program
- Up to one-half of the interest paid on new CWSRF and DWSRF loans will be rebated back for up to five years
- The amount of the annual loan interest rebate cannot exceed an agreed upon annual budget for developing and implementing an Asset Management Plan

Incentive Programs (continued):

- Required to annually submit updated Asset Management Plans, Implementation Plans, and Estimated Budgets to receive annual loan interest rebates
- Annual loan interest rebates can be used to help phase-in residential user rate increases, pay
 expenses associated with implementing an Asset Management Plan, or any other wastewater utility
 related expense

CWSRF and DWSRF Loan Interest Rebate Example:

	Loan 1, Year 1	Loan 2, Year 2	Loan 3, Year 3	Loan 4, Year 4	Loan 5, Year 5	Totals
Loan Amout:	\$1,000,000	\$800,000	\$1,500,000	\$500,000	2,000,000	\$5,800,000
Loan Term (years):	20	20	20	20	20	
Interest Rate:	2.0%	2.5%	3.0%	3.5%	3.5%	
Annual Loan D/S Payment:	\$61,157	\$51,318	\$100,824	\$35,181	\$140,722	\$389,201
Total Loan Interest Rebate:	\$45,801	\$45,986	\$103,871	\$40,546	\$162,183	\$398,387
Year 1	\$10,000					\$10,000
Year 2	\$9,588	\$10,000				\$19,588
Year 3	\$9,169	\$9,609	\$22,500			\$41,277
Year 4	\$8,740	\$9,207	\$21,663	\$8,750		\$48,360
Year 5	\$8,304	\$8,796	\$20,800	\$8,441	\$35,000	\$81,340
		\$8,374	\$19,912	\$8,120	\$33,762	\$70,169
			\$18,997	\$7,789	\$32,481	\$59,267
				\$7,446	\$31,156	\$38,601
June 22, 2016					\$29,783	\$29,783

Project Planning Advances

- Project Planning Advances are designed to assist municipalities with the preparation of Preliminary Engineering Reports (PERs), and Environmental Information Documents (EIDs) that will <u>directly</u> lead to new CWSRF and DWSRF projects and loans.
- Funding Allocation: \$500,000 for wastewater and surface water projects; and \$500,000 for drinking water projects.
- \$100,000 to complete a project PER and EID within one year. PERs are <u>not</u> required for DWSRF projects.
- After a PER and/or EID have been completed, a municipality <u>must</u> submit a CWSRF or DWSRF Project Notice-of-Intent (NOI) for the proposed project.
- 50% of a Project Planning Advance will be <u>principally forgiven</u> after a PER and/or EID have been completed, and 50% will be funded from <u>loan proceeds</u> after the proposed associated CWSRF or DWSRF loan has closed.
- If a public referendum for a proposed SRF project/loan fails to pass, a municipality is required to submit referendum outcome documentation. In the case of a failed public referendum 100% of the Project Planning Advance will be <u>principally forgiven</u>.
- Open solicitation municipalities can submit Project Planning Advance Applications at any time; two per year limit.

Wastewater Facility Planning Matching Grants

- Wastewater Facility Planning Matching Grants are set asides in the CWSRF Non-Federal Administrative Account.
- The program is designed to assist municipal and county wastewater utilities relative to determining infrastructure needs and conducting feasibility studies.
- Funding can be used to assist with wastewater planning in general, and for specific project planning and designs necessary to submit a loan application to the WPCRF for funding consideration.
 - \$500,000 was allocated for the program
 - \$ 50,000 per application, and \$100,000 annual cap per municipality
 - 50% cash match required
 - Grant will be open February, May, August and November as allocated balances allow.
 - Insurance requirements. If your current insurance does not meet the requirements, please explain in your submittal how any deficiencies in the required insurance coverages will be handled.

Application packet will be on the DNREC website, and proposals due by August 4, 2016.

Brinking Water Facility Planning Matching Grants

- Drinking Facility Planning Matching Grants are patterned after the Wastewater Matching Planning Grant Program, funded from the DWSRF Non-Federal Administrative Account.
- The program is designed to assist municipal and county drinking water utilities relative to determining infrastructure needs and conducting feasibility studies.
- Funding can be used to assist with drinking water planning in general, and for specific project planning and designs necessary to submit a loan application for DWSRF funding consideration.
 - \$300,000 was allocated for the program
 - \$ 50,000 per application, and \$100,000 annual cap per municipality
 - 50% cash match required
 - Grant will be open February, May, August and November as allocated balances allow.
 - Insurance requirements. If your current insurance does not meet the requirements, please explain in your submittal how any deficiencies in the required insurance coverages will be handled.

• Application packet will be on the DNREC website, and proposals due by **August 4, 2016**.

Surface Water Matching Planning Grants

- The Water Infrastructure Advisory Council developed the Surface Water Matching Planning Grant Program to support surface water improvement projects and activities that focus on the developed landscape to improve water quality in impaired watersheds in Delaware. These grants are intended for planning/preliminary engineering/feasibility analysis of stormwater retrofits, green technology practices, stream and wetland restoration projects, small watershed studies, development of master surface water and drainage plans, and other point and non-point source water pollution control projects.
- State agencies, counties and municipalities are eligible to apply for a Surface Water Matching Planning Grant
 - \$300,000 was allocated for the program with a \$50,000 grant award cap.
 - The annual award cap is \$100,000.
 - Cash matching funds are required.
 - Grant will be open February, May, August and November as allocated balances allow.
 - Insurance requirements. If your current insurance does not meet the requirements, please explain in your submittal how any deficiencies in the required insurance coverages will be handled.
- Application packet will be on the DNREC website, and proposals due by August 4, 2016.

Surface Water Matching Planning Grants

- Grants were awarded in prior funding cycles to:
 - County-wide planning for Stormwater District in Kent County
 - Water Quality Improvement Project Tar Ditch for the City of Dover
 - Stormwater Utility Feasibility Study for the City of Dover
 - Modeling of the South Wilmington Wetland Park for the City of Wilmington
 - Stormwater retrofits of Harmony Woods/Harbor Club Apartment for the NCCD
 - Munchy Branch Watershed Study for the Sussex Conservation District
 - Master Surface Water and Drainage Plan for the City of Newark
 - Stormwater Infrastructure Study for the Town of Dagsboro
 - Stormwater Infrastructure Study for the Town of Frankford
 - Stormwater Infrastructure Inventory for the Town of Fenwick Island
 - Stormwater retrofits on West Dagsboro Street in the Town of Fenwick Island
 - Stormwater retrofits in the Town of Bethel
 - Stormwater Infrastructure Study for the Town of Dewey Beach
 - Stormwater retrofits for Oak Crest Farms subdivision to meet Inland Bays TMDL
 - Stormwater Infrastructure Study for the City of Lewes
 - Stormwater Infrastructure Study for the City of Rehoboth
 - Master Plan for Retrofits on the Georgetown-Vaughn Tax Ditch in Georgetown

Community Water Quality Improvement Grants

- Community Water Quality Improvement Grants that will support water quality improvement projects in impaired Delaware watersheds will be available from the Water Infrastructure Advisory Council. Competitive grant proposals should focus on the developed landscape to improve water quality and address one or more of the following goals:
 - Provide benefits to water quality within an impaired watershed,
 - How does this proposal demonstrate innovative or environmentally beneficial science?
 - Implementation of non-regulatory projects listed in a watershed management plan,
 - Restoration of water quality benefits.
- Applicants may be any Delaware non-profit organization, community organization, and/or homeowner's association, or Conservation District.
- Ag Operations and for profit firms are <u>not eligible</u>, however, cooperative arrangements with eligible applicants are acceptable

Community Water Quality Improvement Grants

- 75% of grant award must be used for project implementation, 25% can be used for administration
- 25% cash match is required. Federal, state, and local cash are acceptable. In-kind services do not count as cash match however they would help the proposal score higher.
- Projects required by enforcement, punitive requirements, regulation, required mitigation, agricultural practices are <u>not eligible</u>. Projects that exceed regulatory require (except Ag) are acceptable.
- Programs and projects selected will demonstrate innovative and/or environmentally beneficial and sustainable methods, techniques, and/or practices for water quality improvements with cost effective and measurable results.
- \$350,000 is available for FY 2017.
- \$25,000 minimum grant with a \$75,000 per grant cap.
- Insurance requirements. If your current insurance does not meet the requirements, please explain in your submittal how any deficiencies in the required insurance coverages will be handled.

• Application packet will be on the DNREC website, and proposals due by October 26, 2016.

Insurance Requirements of Grantee

Insurance requirements for grant recipients started in FY 2016. Applicants should review their existing insurance coverages and determine if their existing insurance coverage meets the requirements set out below. If the Applicant's current insurance does not meet the requirements set out below, please explain in your submittal how any deficiencies in the required insurance coverages will be handled. Certificate of Insurance and/or copies of the insurance policies will be required before a grant agreement is executed.

Grant recipients shall maintain the following insurance during the grant term:

- Worker's Compensation and Employer's Liability Insurance in accordance with applicable law, and
- Comprehensive General Liability \$1,000,000.00 per occurrence/\$3,000,000 general aggregate, and
- Medical/Professional Liability \$1,000,000.00 per occurrence/\$3,000,000 general aggregate;
 or
- Miscellaneous Errors and Omissions \$1,000,000.00 per occurrence/\$3,000,000 general aggregate, or
- Product Liability \$1,000,000.00 per occurrence/\$3,000,000 general aggregate, and
- If required to transport state employees, Automotive Liability Insurance covering all automotive units used in the work with limits of not less than \$100,000 each person and \$300,000 each accident as to bodily injury and \$25,000 as to property damage to others.

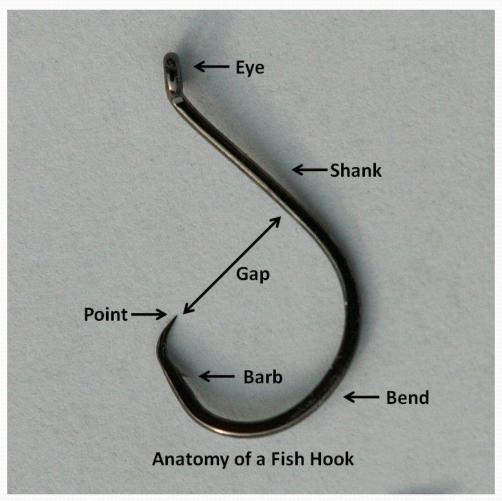
Drinking Water Innovation and Technology Grant

WIAC Proposal April 15, 2015

Approved by DW Sub-Committee on March 27, 2015

- \$50,000 per county with no match
- One recipient per county
- \$150,000 total per year from the Non-Fed Admin Account
- DW Sub-Committee will determine recipient based on quality of applications
- All awarded funds must be utilized only for purposes specified by the application

I&T Grant—What's the Catch?



 The project would be a pilot; therefore the recipients must be willing to share: success, information gained, processes, barriers, etc. with all public water systems via the DHSS website with exclusion of personnel and other sensitive material

Recipient must be willing to present findings to WIAC within one year of grant award

 The project must be innovative or use cutting-edge technology in the drinking water industry

 This should include non-traditional water projects ie: cybersecurity, sonar and echo technology, etc.

 There should be no duplication of effort; ie: similar projects should not be funded

 The recipients must be willing to allow for and promote on-site visits from other drinking water systems

• The recipients must be willing to solicit and encourage participation with middle or high school STEM (Science, Technology, Engineering, Math) groups

 Grant administration will mirror the existing DW Matching Planning Grant

- Applications will be due on October 1
- Guidelines will be based on the DW Matching Planning Grant, but will be amended to best reflect discussion herein

DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

Delaware Water Pollution Control Revolving Fund

Land Conservation Loan Program

And

Water Quality Improvement Loan Program

Overview for Potential Project Sponsors

OFFICE OF THE SECRETARY
Environmental Finance

- Land Conservation Loan Program (LCLP)
 - The LCLP is an innovative financing approach to fund land conservation easements and fee simple land purchases with WPCRF municipal loans
 - Five-year pilot program (up to \$5 million per year subject to availability)
 - Municipal wastewater project must be on the WPCRF Project Priority List (PPL)
 - Municipal LCLP project sponsors must enter into a Sponsorship Agreement with the Delaware Department of Agriculture (DDA) or DNREC 's Division of Park and Recreation, or Division of Fish and Wildlife
 - LCLP project must have demonstrated water quality improvement benefits and be managed in perpetuity
 - Loan debt service payments for both the wastewater and LCLP projects will be equal to wastewater project by itself for the term of the loan
 - The DDA's Delaware Agricultural Land Preservation Foundation is authorized to establish criteria for Forestland and Agricultural Preservation Areas and purchase of forestland and agricultural preservation easement pursuant to 3 Del. C. Ch. 9, § 904
 - DNREC's Division of Parks and Recreation and Division of Fish and Wildlife are authorized to acquire open space and conservation easements under the Delaware Land Protection Act, pursuant to <u>7 Del C.</u> Ch. 75, § 7503

- Water Quality Improvement Loan Program (WQILP)
 - The WQILP is very similar to the LCLP, however, its focus is financing Green Infrastructure and/or Environmentally Innovative projects that will have significant water quality improvement impacts. DNREC's Environmental Finance, and the Division of Watershed Stewardship implement the program.
 - Five-year pilot program (subject to availability)
 - Wastewater and proposed WQILP projects must be on the CWSRF Project Priority List (PPL)
 - WQILP projects must have demonstrated water quality improvement benefits and be managed for the life of the improvement
 - Loan debt service payments for both wastewater and WQILP projects will be equal to wastewater project by itself for the term of the loan
 - WQILP project applicants must enter into a Water Quality Improvement Agreement with DNREC's Division of Watershed Stewardship. Some projects will require a Conservation Agreement with DNREC's Division of Parks and Recreation, or Division of Fish and Wildlife
 - DNREC's Division of Parks and Recreation and Division of Fish and Wildlife are authorized to acquire open space and conservation easements under the Delaware Land Protection Act, pursuant to <u>7 Del C.</u> Ch. 75, § 7503

- LCLP How Does It Work?
 - Project Solicitation and Review:
 - Notice-of-Intent solicitation from municipalities including LCLP project interest
 - CWSRF Project Priority List (PPL) and Intended Use Plan (IUP) developed
 - Municipal and LCLP project loan applications solicited from approved PPL
 - DDA or DNREC (Implementers) Review LCLP Project Applications
 - DNREC Criteria for The LCLP Eligibility
 - DDA Criteria for Forestland Conservation Easements
 - Financial Review and Interest Rate Determination:
 - DNREC conducts financial review of loan applications
 - Interest rate for wastewater and LCLP loans are adjusted to ensure annual loan debt service is equal to the municipal wastewater project separately

DNREC

- Parcel(s) must be at least 10 acres in size and at least 25% forested
- Wastewater spray irrigation is permissible on the parcel(s) utilizing best available treatment technology; however, all wastewater storage and treatment facilities must be located on lands other than the parcel(s).
- There must be a demonstrated water quality benefit associated with the acquisition of the parcel(s) or property rights
- Parcel(s) must be within 1 mile of land already preserved by federal, state, local, or other conservation organizations.
- Parcel(s) must exhibit at least one or more of the following:
 - contains endangered, threatened, or ecologically significant species, or natural communities
 - valuable to the community as open space due to its proximity to developing areas or to its impact on a view corridor
 - valuable to a community because of its historical or cultural resources or its proximity to an historically significant area
 - includes or contributes to important wildlife habitat or migration corridors
 - significant agricultural or forestry resources
 - wetlands, flood plains or other lands necessary for the protection of water resources

contains significant or unique ecosystems or natural features

Land Conservation, & Water Quality Improvement Programs Overview for Potential Project Sponsors

DDA

- Property must (1) be enrolled in Delaware's Forestland Preservation Program (FPP) OR enrolled in the Aglands Preservation Program and meet the requirements of the FPP and (2) have submitted an offer to sell their development rights.
- Requirements of the FPP are:
 - at least 10 (forested) acres in size
 - located outside state-designated growth zone
 - zoned agricultural and no major subdivision recorded for the property
 - have a forest management plan prepared by a professional forester and updated every five years
 - all of the woodland on the property must be included and the land must remain forested (not cleared for cropland, structures, etc.)
- Wastewater spray irrigation is permissible on the FPP parcel(s) utilizing best available treatment technology; however, all wastewater storage and treatment facilities must be located on lands other than the FPP properties.

WQILP – How Does It Work?

Financial Assistance Office

- Project Solicitation and Review:
 - Notice-of-Intent solicitation from municipalities including WQILP project interest
 - CWSRF Project Priority List (PPL) and Intended Use Plan (IUP) developed
 - Municipal and WQILP project loan applications solicited from approved PPL
- Financial Review and Interest Rate Determination:
 - Environmental and Financial Reviews of loan applications conducted
 - Evaluation of Interest Rate for proposed Wastewater and WQLP loans are conducted to ensure annual combine loan debt service will be equal to the municipal wastewater project separately
 - Coordinates Internal Processing and Approvals, Loan Closings with Applicants, the Division of Watershed Stewardship, and Other Partners as Necessary

Land Conservation, & Water Quality Improvement Programs Overview for Potential Project Sponsors

WQILP Criteria

There must be a demonstrated water quality benefit associated with the project, and the project must exhibit at least one or more of the following:

- Project must incorporate green infrastructure and /or be environmentally innovative;
 - Examples of eligible projects include:
 - Implementation of green streets (combination of infrastructure practices in transportation rights-of-way) for new development, redevelopment or retrofits;
 - Implementation of wet weather management systems for parking areas which include: the incremental cost of porous pavement, bioretention, trees, green roofs and other practices that mimic natural hydrology and reduce effective imperviousness at one or more scales;
 - Equipment to maintain green streets, vactor trucks and other equipment (Will be contingent upon contractual arrangement with Environmental Finance and the Division of Watershed Stewardship);
 - Implementation of water harvesting and reuse programs or projects, including reuse that reduce energy consumption, recharge aquifers and reduce water withdrawals and treatment costs
 - Downspout disconnection to remove stormwater from combined sewers and storm sewers;

Community and implementing **CWSRF** Provides funding to partner enter into sponsorship community for wastewater treatment & land conservation or agreement water quality improvement project **CWSRF Conservation Project Community Implementing Sponsor Partner**

Community provides CWSRF funding for sponsored land conservation or water quality improvement project

4 Community repays low-interest loan to CWSRF

Example - Land Conservation and Water Quality Improvement Loan Program

Loan Term (years)	CWSRF Interest Rate	Land Conservation or Water Quality Improvement Interest Rate	Land Conservation or Water Quality Improvement Loan	Municipal Wastewater Loan	Total Annual Debt Service Payment	Life of Loan Debt Service Payment
			\$114,973	\$1,000,000		
20	2.95%	n/a	n/a	\$66,905	\$66,905	\$1,338,107
20	2.00%	0.000%	\$5,749	\$61,157	\$66,905	\$1,338,107
			\$344,919	\$3,000,000		
20	2.95%	n/a	n/a	\$200,716	\$200,716	\$4,014,322
20	2.00%	0.000%	\$17,246	\$183,470	\$200,716	\$4,014,322
			\$574,865	\$5,000,000		
20	2.95%	n/a	n/a	\$334,527	\$334,527	\$6,690,537
20	2.00%	0.000%	\$28,743	\$305,784	\$334,527	\$6,690,537
			\$1,207,217	\$10,500,000		
20	2.95%	n/a	n/a	\$702,506	\$702,506	\$14,050,128
20	2.00%	0.000%	\$60,361	\$642,146	\$702,506	\$14,050,128
			\$4,024,057	\$35,000,000		
20	2.95%	n/a	n/a	\$2,341,688	\$2,341,688	\$46,833,759
20	2.00%	0.000%	\$201,203	\$2,140,485	\$2,341,688	\$46,833,759

Questions